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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kie Y. Ahn et.al. Examiner: Asok K. Sarkar
Serial No.: 10/765,619 Group Art Unit: 2829
Filed: January 27, 2004 Docket: 1303.033US2
Title: HIGH-QUALITY PRASEODYMIUM GATE DIELECTRICS (As Amended)

COMMUNICATION CONCERNING RELATED APPLICATION(S)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related application(s) in the above-identified patent application:

| <u>Serial/Patent No.</u> | <u>Filing Date</u> | <u>Attorney Docket</u> | <u>Title</u> |
|--------------------------|--------------------|------------------------|---|
| 10/768597 | January 30, 2004 | 1303.033US3 | LOW-TEMPERATURE GROWN HIGH-QUALITY ULTRA-THIN PRASEODYMIUM GATE DIELECTRICS |
| 10/789042 | February 27, 2004 | 1303.050US2 | ATOMIC LAYER-DEPOSITED LaAlO ₃ FILMS FOR GATE DIELECTRICS |
| 11/036296 | January 14, 2005 | 1303.030US2 | LOW-TEMPERATURE GROWN HIGH-QUALITY ULTRA-THIN CoTiO ₃ GATE DIELECTRICS |
| 10/789044 | February 27, 2004 | 1303.070US2 | LANTHANIDE DOPED TiO _x DIELECTRIC FILMS |
| 10/863953 | June 9, 2004 | 1303.031US2 | HIGHLY RELIABLE AMORPHOUS HIGH-k GATE DIELECTRIC ZrO _x N _y |
| 10/930138 | August 31, 2004 | 1303.044US2 | EVAPORATION OF Y-Si-O FILMS FOR MEDIUM-k DIELECTRICS |
| 10/930184 | August 31, 2004 | 1303.021US2 | CRYSTALLINE OR AMORPHOUS MEDIUM-k GATE OXIDES, Y ₂ O ₃ AND GD ₂ O ₃ |
| 10/930516 | August 31, 2004 | 1303.078US2 | ATOMIC LAYER DEPOSITED HfSiON DIELECTRIC FILMS |

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|-----------|-------------------|-------------|---|
| 10/931341 | August 31, 2004 | 1303.082US2 | ATOMIC LAYER DEPOSITED ZR-SN-TI-O FILMS USING TiI4 |
| 10/930431 | August 31, 2004 | 1303.056US2 | ATOMIC LAYER-DEPOSITED HfAlO3 FILMS FOR GATE DIELECTRICS |
| 10/931365 | August 31, 2004 | 1303.059US2 | Pr2O3-BASED La-oxide GATE DIELECTRICS |
| 10/931364 | August 31, 2004 | 1303.069US2 | LANTHANIDE DOPED TiOx DIELECTRIC FILMS BY PLASMA OXIDATION |
| 10/931343 | August 31, 2004 | 1303.101US2 | LANTHANIDE OXIDE / HAFNIUM OXIDE DIELECTRIC LAYERS |
| 10/931340 | August 31, 2004 | 1303.107US2 | LANTHANIDE OXIDE / HAFNIUM OXIDE DIELECTRICS |
| 10/931356 | August 31, 2004 | 1303.026US2 | HIGHLY RELIABLE AMORPHOUS HIGH-K GATE OXIDE ZrO2 |
| | February 15, 2005 | 1303.133US1 | ATOMIC LAYER DEPOSITION OF Zr3N4/ZrO2 FILMS AS GATE DIELECTRICS |
| 11/031289 | January 7, 2005 | 1303.069US3 | LANTHANIDE DOPED TiOx DIELECTRIC FILMS BY PLASMA OXIDATION |
| | February 16, 2005 | 1303.046US2 | EVAPORATED LaAlO3 FILMS FOR GATE DIELECTRICS |

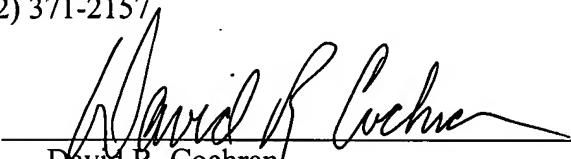
Respectfully submitted,

KIE Y. AHN ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
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Date 21 February 2005 By


David R. Cochran
Reg. No. 46,632

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 22 day of February, 2005.

Name

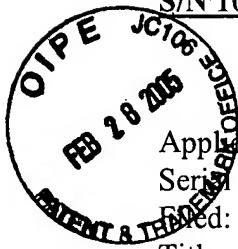
KACIA LEE

Signature

Kacia Lee

S/N 10/765,619

PATENT



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Applicant: Kie Y. Ahn et al. Examiner: Asok K Sarkar
Serial No.: 10/765,619 Group Art Unit: 2829
Filed: January 27, 2004 Docket: 1303.033US2
Title: HIGH-QUALITY PRASEODYMIUM GATE DIELECTRICS (As Amended)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. § 1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. § 1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 19-0743.

03/01/2005 EAREGAY1 00000003 10765619

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The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

KIE Y. AHN ET AL.

By their Representatives,

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Date 22 February 2005

By ____
David R. Cochran
Reg. No. 46,632

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 22 day of February, 2005.

Name KACIA LEE

Signature Kacia Lee

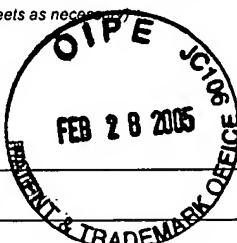
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| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | <i>Complete if Known</i> Application Number 10/765,619 Filing Date January 27, 2004 First Named Inventor Ahn, Kie Group Art Unit 2829 Examiner Name Sarkar, Asok | |
|  Sheet 2 of 2 | | Attorney Docket No: 1303.033US2 | |

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EXAMINER

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|  | | Application Number | 10/765,619 |
| | | Filing Date | January 27, 2004 |
| | | First Named Inventor | Ahn, Kie |
| | | Group Art Unit | 2829 |
| | | Examiner Name | Sarkar, Asok |
| Sheet 2 of 2 | | Attorney Docket No: 1303.033US2 | |

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| Examiner Initials* | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | T ² |
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| Examiner Initials* | Cite No ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
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